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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/682,335	10/08/2003	Nikolai Jitariouk	034299-000538	9839	
75	90 07/18/2006		EXAMINER		
Robert E. Krebs			SORKIN,	SORKIN, DAVID L	
Thelen Reid & Priest LLP P.O. Box 640640 ART UNIT		PAPER NUMBER			
San Jose, CA 95164-0640			1723		
			DATE MAILED: 07/18/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

			8			
	Application No.	Applicant(s)				
	10/682,335	JITARIOUK ET AL.				
Office Action Summary	Examiner	Art Unit				
	David L. Sorkin	1723				
The MAILING DATE of this communication ap	opears on the cover sheet with the	correspondence addres	ss			
Period for Reply		1/6) OD THIDTY (20) F	2476			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be to d will apply and will expire SIX (6) MONTHS fror tte, cause the application to become ABANDON	N. imely filed m the mailing date of this commu				
Status						
1) Responsive to communication(s) filed on 26.	June 2006.					
,	is action is non-final.					
3) Since this application is in condition for allow		rosecution as to the me	erits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 29-48 is/are pending in the applicati	on.					
4a) Of the above claim(s) is/are withdra						
5)⊠ Claim(s) <u>46-48</u> is/are allowed.						
6)⊠ Claim(s) <u>29</u> is/are rejected.						
7)⊠ Claim(s) <u>30-45</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is o	bjected to. See 37 CFR 1	l.121(d).			
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action or form PTO-1	152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1.☐ Certified copies of the priority documer	nts have been received.					
2.⊠ Certified copies of the priority documents have been received in Application No. <u>09/331,728</u> .						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bure	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) Interview Summar Paper No(s)/Mail [
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	🗀	Patent Application (PTO-152	2)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 June 2006 has been entered.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claim 29 is rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. US 6,258,271, with

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Shaw et al. (US 3,764,018) being relied upon as evidence of obviousness. Note that while a restriction requirement was made in parent application number 09/331,728, the numerical range recited in currently amended claim 29 was not present at the time of restriction. Claim 1 of US 6,258,271 recites a hollow fiber membrane comprising two support layers and plurality of capillary tubes arranged between the support layers, wherein said membrane has from 10⁵ to 5 x 10⁸ capillary tubes per cm². Furthermore. all the subcombination membrane aspects required by instant claim 29 are recited in claim 1 of US 6,258,271. Shaw ('018) discloses a fluid treatment module comprising at least two (see col. 2, lines 48-51) hollow membranes (1), each including two support layers (9) and a plurality of capillary tubes (8) arranged between the support layers and each having an opening at the level of each support layer in such a way as to form capillary channels for the flow of a first fluid, the space between the capillary tubes and the two support layers forming an internal cavity for circulation of a second fluid around the capillary tubes, the two support layers and the capillary tubes being constituted by an organic polymer (see col. 3, line 49 to col. 4, line 46), wherein said hollow membranes are arranged within a sealed enclosure (10) in such a way as to provide between at least one side of said hollow membranes and an adjacent side wall of the enclosure, spaces for the circulation of the first fluid uniquely in communication with the inside of the capillary tubes of the hollow membranes; means for circulating said first fluid in the capillary tubes of the hollow membranes by introducing said first fluid (A) in to at least one of said circulation spaces and by collecting said first fluid in another of said circulation spaces; and means for circulating said second fluid (B) in the internal

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cavity of the hollow membranes. While Shaw ('018) does not explicitly disclose the numerical range "from 10⁵ to 5 x 10⁸ capillary tubes per cm²", Shaw ('018) teaches that "the number of ... orifices is generally from about 2,500 to about 90,000 in number, but may be more or less as desired". It would have been obvious to one of ordinary skill in the art to have combined the teachings of Shaw (018) and Claim 1 of US 6,258,271 to yield the claimed invention of instant claim 29, because Shaw ('018) discloses all the limitations of claim 29, save for the numerical range, but suggest the number of orifices could be more or less if desired, while discloses the subcombination membrane including the exact numerical range.

Allowable Subject Matter

- 4. Claims 46-48 are allowed.
- 5. Claims 30-45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Sorkin whose telephone number is 571-272-1148. The examiner can normally be reached on 9:00 -5:30 Mon.-Fri..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David L. Sorkin Primary Examiner Art Unit 1723

DLS